AMENDMENTS TO THE CLAIMS

1-4 (Cancelled)

- 5. (Currently Amended) A refrigeration system comprising:
 - (A) a storage unit having a storage space;
- (B) a purge gas generator, <u>a gas contaminant cleaning system</u>, <u>a heat exchanger</u>, a cryocooler having a cold head, means for passing gas from the purge gas generator to <u>the gas contaminant cleaning system</u>, means for <u>passing gas from the gas contaminant cleaning system to the heat exchanger</u> <u>and then from the heat exchanger to</u> the cold head of the cryocooler, and means for passing fluid from the cold head of the cryocooler into the storage space; and
- (C) a gas contaminant cleaning system, and means for passing gas from within the storage space to the heat exchanger and then from the heat exchanger to the gas contaminant cleaning system.
 - 6. (Cancelled)
- 7. (Original) The refrigeration system of claim 5 wherein the gas contaminant cleaning system comprises an ejector.
- 8. (Original) The refrigeration system of claim 5 wherein the purge gas generator comprises an air compressor and an air cleaning system.
- 9. (Original) The refrigeration system of claim 5 wherein the purge gas generator comprises a membrane nitrogen generator.
 - 10. (Cancelled)
- 11. (Original) The refrigeration system of claim 5 wherein the cryocooler is a pulse tube refrigerator comprising a pressure wave generator, and a pulse tube containing working gas for receiving a pressure wave from the pressure wave generator.

- 12. (New) The refrigeration system of claim 5 wherein the means for passing gas from the heat exchanger to the gas contaminant cleaning system communicates with means for venting gas to the atmosphere.
- 13. (New) The refrigeration system of claim 5 wherein the storage space contains biological material.